

ASSIGNED
Nº 49943

AMENDED
APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office.....JUN 25 1986
Returned to applicant for correction.....JUL 15 1986
Corrected application filed.....AUG 12 1986
Map filed.....AUG 12 1986

The applicant.....Munson Geothermal, Inc.
.....162 Hubbard Way, Suite F....., of.....Reno.....
Street and No. or P.O. Box No. City or Town
.....Nevada.....89502....., hereby make..... application for permission to appropriate the public
State and Zip Code No.
waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorpora-
tion; if a copartnership or association, give names of members.).....December 20, 1982 Delaware

1. The source of the proposed appropriation is.....underground (MGI-4)
Name of stream, lake, spring, underground or other source
2. The amount of water applied for is.....5.0 CFS.....second-feet
One second-foot equals 448.83 gals. per min.
(a) If stored in reservoir give number of acre-feet.....
3. The water to be used for.....Industrial and Domestic (Geothermal power)
Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.
4. If use is for:
(a) Irrigation, state number of acres to be irrigated.....
(b) Stockwater, state number and kinds of animals to be watered.....
(c) Other use (describe fully under "No. 12. Remarks").....
(d) Power:
(1) Horsepower developed.....
(2) Point of return of water to stream.....
5. The water is to be diverted from its source at the following point.....SW 1/4 SE 1/4 section 1, T22N,
Describe as being within a 40-acre subdivision of public
.....R26E, MDB & M, located N 89° 11' 50" E, 3834.98 feet from the NW
survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.
.....corner section 12, T22N, R26E, MDB & M.
6. Place of use.....within the SW 1/4 NW 1/4 section 12, T22N, R26E, MDB & M.
Describe by legal subdivision. If on unsurveyed land, it should be so stated.
7. Use will begin about.....January 1.....and end about.....December 31....., of each year.
Month and Day Month and Day
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.).....20" casing to be set from surface to
State manner in which water is to be diverted, i.e. diversion structure, ditches and
.....230 feet, 13 3/8" casing from surface to 2125 feet, open to Total
flumes, drilled well with pump and motor, etc.
Depth, about 2150 feet. \$327,500
9. Estimated cost of works.....

10. Estimated time required to construct works.....three years
If well completed, describe works.
11. Estimated time required to complete the application of water to beneficial use.....seven years
12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.
This application is made to provide production water and cooling water for a geothermal power plant and associated uses. Water from this well will be comingled with other geothermal wells and fed through the plant and its cooling tower. The water will be discharged to the cooling water pond with overflow to temporary surface discharge, see attached. The estimated withdrawal for this well is 1529 gpm, consistent with the reservoir capability. The consumptive use is 20% of the amount withdrawn annually, or about 306 gpm, 24 hours per day, 7 days per week throughout the year.

By s/ illegible
162 Hubbard Way, Suite F
Reno, NV 89502

Compared js/jm pm/se

Protested by Richard W. Arden (Gilroy Foods) 9/25/86
Pro. overruled 10/22/87 Ruling # 3467

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of geothermal fluid herein granted is only a temporary allowance and that the final right obtained under this permit will be dependent upon the amount actually placed to beneficial use. It is also understood that this right must allow for a reasonable decrease of fluid pressure and heat. The well shall be equipped and maintained to prevent any waste of the geothermal fluid. Accurate measurements must be kept of discharge of the production well and the amount of fluid injected into the injection well to determine the total amount of fluid diverted and consumed for a beneficial use.

The production and injection well are to be cemented from the producing levels to the surface to protect fresh water zones. This permit is issued subject to the condition that only geothermal fluids are to be diverted and used beneficially for heating purposes and fresh, cold water aquifers are not to be diverted. The used geothermal fluids are to be returned to the source via the injection well. The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies. A detailed log on the injection well and/or other analyses of the system used for returning the used geothermal fluids to the source must (CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 3.41 cubic feet per second

Work must be prosecuted with reasonable diligence and be completed on or before February 1, 1990

Proof of completion of work shall be filed on or before March 1, 1990

Application of water to beneficial use shall be made on or before February 1, 1993

Proof of the application of water to beneficial use shall be filed on or before March 1, 1993

Map in support of proof of beneficial use shall be filed on or before N/A

Completion of work filed IN TESTIMONY WHEREOF, I PETER G. MORROS
State Engineer of Nevada, have hereunto set my hand and the seal of

Proof of beneficial use filed my office, this 1st day of February

Cultural map filed

Certificate No. Issued

(PERMIT TERMS CONTINUED)

be submitted together with the Proof of Completion.

An annual report for this well must be filed under this permit describing the amount of geothermal fluid diverted and consumed to a beneficial use for the calendar year. This report must detail the amount of fluid produced and injected.

The total withdrawal of the geothermal fluid shall be limited to 2466.3 acre-feet per year but the total consumptive use of the geothermal fluid is limited to only incidental fluid losses in the system and in no case shall it amount to more than 20% of the volume withdrawn annually. The State Engineer does not waive the right to make a determination of incidental fluid losses at any time and impose additional conditions thereto. This permit is further issued subject to the provisions of NRS 533.372(1) and with the understanding that the power or energy generated by the beneficial use of this water or steam is subject to recapture and use within the boundaries of the State of Nevada when the need arises.

This permit is further subject to the terms and conditions set forth in the State Engineer's Ruling dated October 22, 1987.

ATTACHMENT

Munson Geothermal, Inc. (MGI) has recently contracted for a Hydrologic and Hydraulic Analysis regarding surface discharge into existing drainage structures in the vicinity of the Brady Geopark Power Project. MGI, in conjunction with appropriate federal and state agencies, will use this data to design the temporary surface discharge program.